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DATE MAILED: 04/21/2008

#### NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 04/21/2008

Cook Alex Mcfarron Manzo Cummings & Mehler LTD 200 West Adams ST Suite 2850 Chicago, IL 60606 EXAMINER

LEE, EUGENE

ART UNIT PAPER NUMBER

2815

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|-----------------|-------------|----------------------|---------------------|------------------|--|
| 09/516,082      | 03/01/2000  | Satoshi Murakami     | SEL163              | 3545             |  |

TITLE OF INVENTION: SEMICONDUCTOR DEVICE COMPRISING A THIN FILM TRANSISTOR COMPRISING A SEMICONDUCTOR THIN FILM AND METHOD OF MANUFACTURING THE SAME

| APPLN, TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1440        | \$300               | \$0                  | \$1740           | 07/21/2008 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL  $\ensuremath{\mathsf{FEE}}(S)$  DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| appropriate. All further<br>indicated unless corrects<br>maintenance fee notifica   | correspondence includir<br>ed below or directed oth  | ng the Patent, advance on<br>herwise in Block 1, by (a   | rders and notification of n<br>i) specifying a new corres   | naintenance fees w<br>pondence address;  | ill be<br>and/or                             | mailed to the current<br>(b) indicating a sepa  | correspondence ac<br>rate "FEE ADDRI   | idress as<br>ESS" for                                      |
|---|--|--|---|--|--|---|--|--|
| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)  |  |  |   | Note: A certificate of mailing can only be used for domestic mailings of the<br>Fee(s) Transmittal. This certificate cannot be used for any other accompanying<br>papers. Each additional paper, such as an assignment or formal drawing, must<br>have its own certificate of mailing or transmission. |  |   |  |  |
|   | 7590 04/21   | /2008  |   |  |  | of Mailing or Trans   |  |  |
| Cook Alex Mcfarron Manzo<br>Cummings & Mehler LTD<br>200 West Adams ST  |  |  | I her<br>State<br>addr<br>trans   | salso cartify that thi   | e Gool                                       | s) Transmittal is being<br>ficient postage for firs<br>ISSUE FEE address<br>1) 273-2885, on the d                           | deposited with the   | e United<br>envelope<br>acsimile                           |
| Suite 2850<br>Chicago, IL 606   | 06   |  |   |  |  |   | (Deposit   | ior's name)  |
| - 0,  |  |  |   |  |  |   | 0  | Signature)   |
|   |  |  |   |  |  |   |  | (Date)   |
| APPLICATION NO.   | FILING DATE  |  | FIRST NAMED INVENTOR  |  | ATTO   | RNEY DOCKET NO.   | CONFIRMATION   | NO.  |
| 09/516,082  | 03/01/2000   | •  | Satoshi Murakami  | •  |  | SEL163  | 3545   |  |
| AND METHOD OF MA  |  |  | A THIN FILM TRANSIST  |  |  |   |  |  |
| APPLN, TYPE   | SMALL ENTITY   | ISSUE FEE DUE  | PUBLICATION FEE DUE   | PREV. PAID ISSUE   | FEE  | TOTAL FEE(S) DUE  | DATE DU  | Е  |
| nonprovisional  | NO   | \$1440   | \$300   | \$0  |  | \$1740  | 07/21/200  | )8   |
| EXAM  | IINER  | ART UNIT   | CLASS-SUBCLASS  |  |  |   |  |  |
| LEE, E  | UGENE  | 2815   | 257-347000  |  |  |   |  |  |
| 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.563).  Change of correspondence address for Change of Correspondence Address form FTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form FTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. |  |  | (2) the name of a single<br>registered attorney or a  | es of up to 3 registered patent attorneys  8, alternatively, of a single firm (having as a member a  ttorney or agent) and the names of up to patent attorneys or agents. If no name is 2  |  |   |  |  |
| PLEASE NOTE: Uni<br>recordation as set fort<br>(A) NAME OF ASSI   | less an assignee is ident<br>h in 37 CFR 3.11. Comp<br>GNEE  | ified below, no assignee<br>sletion of this form is NO   | THE PATENT (print or typedata will appear on the pat a substitute for filing an and (B) RESIDENCE: (CITY inted on the patent):                | ntent. If an assigne<br>assignment.<br>and STATE OR C  | OUNT   | RY)   |  |  |
| 4a. The following fee(s)  Issue Fee Publication Fee (N  | vo small entity discount p   |  | o. Payment of Fee(s): (Plea  A check is enclosed.  Payment by credit can  The Director is hereby overpayment, to Depo                         | d. Form PTO-2038<br>authorized to chan   | is atta                                      | ched.   |  | any<br>s form).  |
|   | s SMALL ENTITY state   | is. See 37 CFR 1.27.   | ☐ b. Applicant is no long   |  |  |   |  |  |
| NOTE: The Issue Fee an<br>interest as shown by the  | d Publication Fee (if req<br>records of the United Sta   | uired) will not be accepted<br>tes Patent and Trademark  | d from anyone other than t<br>Office.   | ne applicant; a regis  | tered a                                      | uttorney or agent; or th  | e assignee or other  | party in   |
| Authorized Signature  |  |  |   | Date   |  |   |  |  |
| Typed or printed name   |  |  |   | Registration N   | o  |   |  |  |
| This collection of inform<br>an application. Confiden<br>submitting the complete<br>this form and/or suggesti<br>Box 1450, Alexandria, V<br>Alexandria, Virginia 223  | nation is required by 37 C<br>tiality is governed by 35<br>d application form to the<br>ions for reducing this but<br>'irginia 22313-1450. DC<br>113-1450. | EFR 1.311. The informatic<br>U.S.C. 122 and 37 CFR<br>USPTO. Time will vary<br>rden, should be sent to the<br>O NOT SEND FEES OR ( | on is required to obtain or r<br>1.14. This collection is est<br>depending upon the indiv<br>e Chief Information Office<br>COMPLETED FORMS TO | etain a benefit by the<br>imated to take 12 in<br>idual case. Any cour, U.S. Patent and<br>O'THIS ADDRESS  | e publ<br>ninutes<br>nment<br>Fraden<br>SENI | ic which is to file (and<br>to complete, includin<br>s on the amount of tin<br>nark Office, U.S. Depo<br>O TO: Commissioner | by the USPTO to<br>g gathering, prepar<br>ne you require to co<br>artment of Comment<br>for Patents, P.O. Bo | process)<br>ring, and<br>complete<br>rce, P.O.<br>ox 1450, |

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Chicago, IL 60606

# UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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| APPLICATION NO.                 | FILING DATE   | FIRST NAMED INVENTOR           | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|---------------------------------|---------------|--------------------------------|---------------------|------------------|--|
| 09/516,082                      | 03/01/2000    | Satoshi Murakami               | SEL163 3545         |                  |  |
| 75                              | 90 04/21/2008 |                                | EXAM                | IINER            |  |
| Cook Alex Mcfarron Manzo        |               |                                | LEE, EUGENE         |                  |  |
| Cummings & Meh                  |               |                                | ART UNIT            | PAPER NUMBER     |  |
| 200 West Adams ST<br>Suite 2850 |               | 2815<br>DATE MAILED: 04/21/200 | 18                  |                  |  |

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Application No. Applicant(s) 09/516.082 MURAKAMI ET AL. Notice of Allowability Framiner Art Unit FUGENE LEE 2815 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable. PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 3/6/08. 2. X The allowed claim(s) is/are 46,47,52,53,56,58,59,61,62,64,65,67,68,70,71,73,74,76-78,81,83,85,86,88-90,92,93,95,96,98-100, 102, 103, 105, 106, 108, 119, 120, 122, 123, 125, 126, 128-130, 132, 133, 135, 136 and 138-145. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) \( \Pi \) Some\* c) \( \Pi \) None of the: 1. X Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). \* Certified copies not received: . Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) Including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413). Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. ☐ Examiner's Amendment/Comment Paper No./Mail Date 3/6/08 4. TExaminer's Comment Regarding Requirement for Decosit 8. X Examiner's Statement of Reasons for Allowance of Biological Material

9. Other \_\_\_\_\_.

/Eugene Lee/
Primary Examiner, Art Unit 2815

#### DETAILED ACTION

## Allowable Subject Matter

1. Claims 46, 47, 52, 53, 56, 58, 59, 61, 62, 64, 65, 67, 68, 70, 71, 73, 74, 76 thru 78, 81, 83, 85, 86, 88 thru 90, 92, 93, 95, 96, 98 thru 100, 102, 103, 105, 106, 108, 119, 120, 122, 123, 125, 126, 128 thru 130, 132, 133, 135, 136, and 138 thru 145 are allowed. The following is an examiner's statement of reasons for allowance: The references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a first conductive layer formed over the interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor through a first opening; a color filter formed over the interlayer insulating film and the first conductive layer, wherein a second opening is formed in the color filter; and a pixel electrode formed over the color filter and electrically connected to the first conductive layer through the second opening, wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the second opening is formed, and wherein the second opening does not overlap the first opening.

Regarding claims 52, 58, 61, and all depending claims, the references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a first conductive layer formed over the first interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor through a first opening; a color filter formed over the passivation film, wherein a second opening is formed in the color filter; and a pixel electrode formed over the color filter and electrically connected to the first conductive layer through the second opening, wherein the color filter covers the entire first thin

Application/Control Number: 09/516,082

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film transistor and the entire semiconductor film except an area where the second opening is formed, and wherein the second opening does not overlap the first opening.

Regarding claims 56, 59, and all depending claims, the references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a first conductive layer formed over the interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor through a first opening; a color filter formed over the interlayer insulating film, the first conductive layer and the first thin film transistor, wherein a second opening is formed in the color filter; and a pixel electrode formed over the color filter and electrically connected to the first conductive layer through the second opening, wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the second opening is formed, and wherein the second opening does not overlap the first opening.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### INFORMATION ON HOW TO CONTACT THE USPTO

Any inquiry concerning this communication or earlier communications from the examiner should be directed to EUGENE LEE whose telephone number is (571)272-1733. The examiner can normally be reached on M-F 8-5.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Parker can be reached on 571-272-2298. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eugene Lee April 11, 2008

/Eugene Lee/

Primary Examiner, Art Unit 2815

# Application Number

Application/Control No. Applicant(s)/Patent under Reexamination 09/516,082 MURAKAMI ET AL. Examiner Art Unit

|                                  | EUGENE LEE | 2815       |             |       |
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